

WHAT IS CLAIMED IS:

1 1. A compound having the formula:



2 wherein

4 Ab is an antibody;

5 G is an intact glycosyl linking group covalently joining Ab to L;

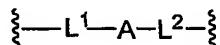
6 L is a bond or a spacer moiety covalently joining G to T; and

7 T is a toxin.

1 2. The compound according to claim 1, wherein said linker moiety is a
2 member selected from substituted or unsubstituted alkyl, substituted or unsubstituted
3 heteroalkyl and substituted or unsubstituted aryl moieties.

1 3. The compound according to claim 2, wherein said linker moiety
2 comprises a poly(ethylene glycol) moiety.

1 4. The compound according to claim 1, wherein L has the formula:



3 wherein

4 L¹ is a bond or a linker moiety covalently joining S to A;

5 A is an amplifier moiety; and

6 L² is a bond or a spacer moiety covalently adjoining A to T.

1 5. The compound according to claim 4, wherein said amplifier moiety is a
2 polyamine moiety.

1 6. The compound according to claim 5, wherein said polyamine moiety is
2 a dendrimer.

1 7. The compound according to claim 4, having the formula:



3 wherein

4 PEG is a straight- or branched-chain poly(ethylene glycol);

5 m is an integer from 1 to 6; and

6 n is an integer from 1 to 1,000.

1 8. The compound according to claim 4, having the formula:

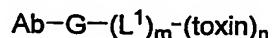


2 wherein

4 m is an integer from 1 to 6; and

5 n is an integer from 1 to 1,000.

1 9. The compound according to claim 4, having the formula:

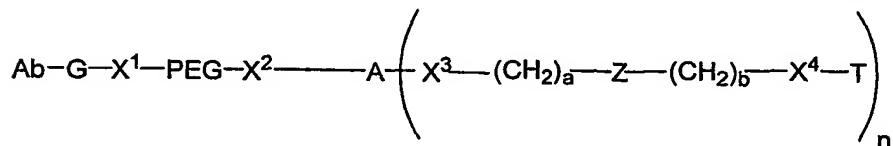


2 wherein

4 m is an integer from 1 to 6; and

5 n is an integer from 1 to 1,000.

1 10. The compound according to claim 1, having the formula:



2 wherein

4 X¹, X² and X⁴ are linking groups and are members selected from the group
5 consisting of O, S, NH, (CH₂)_q-NH, NH-(CH₂)_q, NH-C(O)-O,
6 O-C(O)-NH, (CH₂)_q-NH-C(O)-O, O-C(O)-NH-(CH₂)_q, C(O)-O,
7 O-C(O), (CH₂)_q-NH-C(O), C(O)-NH-(CH₂)_q, NH-C(S), and C(S)-NH
8 and wherein

9 A is an amplifier moiety;

10 Z is a bond cleaved by a metabolic/physiological process;

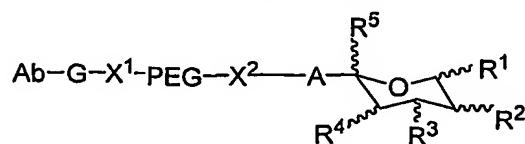
11 n is an integer from 1 to 1,000;

12 a is an integer from 1 to 10;

13 b is an integer from 1 to 10; and

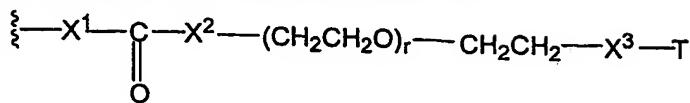
14 q is an integer from 0 to 20.

1 11. The compound according to claim 1, having the formula:



2 wherein

4 at least one of R¹, R², R³, R⁴, R⁵, is :



6 wherein

7 r is an integer from 1 to 2,500;

8 Z¹ is selected from the group consisting of O, S, and NH;

9 Z² is selected from the group consisting of NH, and NH-(CH₂)_q;

10 and

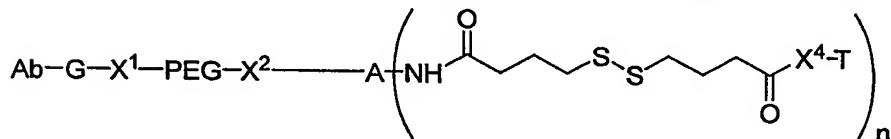
11 X¹, X² and X³ are linking groups and are members selected from the group
 12 consisting of O, S, NH, (CH₂)_q-NH, NH-(CH₂)_q, NH-C(O)-O,
 13 O-C(O)-NH, (CH₂)_q-NH-C(O)-O, O-C(O)-NH-(CH₂)_q, C(O)-O,
 14 O-C(O), (CH₂)_q-NH-C(O), C(O)-NH-(CH₂)_q, NH-C(S), and C(S)-NH

15 wherein

16 n is an integer from 1 to 1,000; and

17 q is an integer from 0 to 20.

1 12. The compound according to claim 1, having the formula:



3 wherein

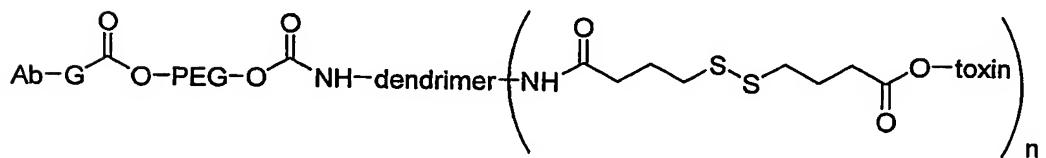
4 X¹, X² and X⁴ are linking groups and are members selected from the group
 5 consisting of O, S, NH, (CH₂)_q-NH, NH-(CH₂)_q, NH-C(O)-O,
 6 O-C(O)-NH, (CH₂)_q-NH-C(O)-O, O-C(O)-NH-(CH₂)_q, C(O)-O,
 7 O-C(O), (CH₂)_q-NH-C(O), C(O)-NH-(CH₂)_q, NH-C(S), and C(S)-NH

8 wherein

9 n is an integer from 1 to 1,000; and

10 q is an integer from 0 to 20.

1 13. The compound according to claim 12, having the formula:



1 14. A compound having the formula:



2 wherein

3 S is a nucleotide sugar

4 L is a bond or a spacer moiety covalently joining S to T; and

5 T is a toxin moiety.

1 15. The compound according to claim 14, wherein said spacer moiety is a

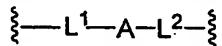
2 member selected from substituted or unsubstituted alkyl, substituted or unsubstituted

3 heteroalkyl and substituted or unsubstituted aryl moieties.

1 16. The compound according to claim 15, wherein said spacer moiety

2 comprises a poly(ethylene glycol) moiety.

1 17. The compound according to claim 14, wherein L has the formula:



2 wherein

3 L¹ is a bond or a spacer moiety covalently joining S to A;

4 A is an amplifier moiety; and

5 L² is a bond or a spacer moiety covalently joining A to T.

1 18. The compound according to claim 17, wherein said amplifier moiety is

2 a polyamine moiety.

1 19. The compound according to claim 18, wherein said polyamine moiety

2 is a dendrimer.

1 20. The compound according to claim 17, having the formula:



2 wherein

3 PEG is a straight- or branched-chain poly(ethylene glycol);

4 m is an integer from 1 to 6; and

5 n is an integer from 1 to 1,000.

1 21. The compound according to claim 17, having the formula:

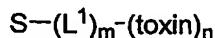


3 wherein

4 m is an integer from 1 to 6; and

5 n is an integer from 1 to 1,000.

1 22. The compound according to claim 17, having the formula:

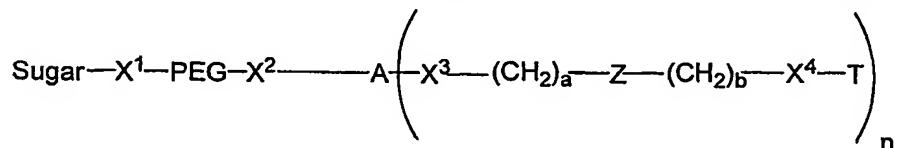


3 wherein

4 m is an integer from 1 to 6; and

5 n is an integer from 1 to 1,000.

1 23. The compound according to claim 22, having the formula:



3 wherein

4 X¹, X² and X³ are linking groups and are members selected from the group
 5 consisting of O, S, NH(CH₂)_q-NH, NH-(CH₂)_q, NH-C(O)-O,
 6 O-C(O)-NH, (CH₂)_q-NH-C(O)-O, O-C(O)-NH-(CH₂)_q, C(O)-O,
 7 O-C(O), (CH₂)_q-NH-C(O), C(O)-NH-(CH₂)_q, NH-C(S), and C(S)-NH

8 and wherein

9 A is an amplifier moiety;

10 Z is a bond cleaved by a metabolic/physiological process;

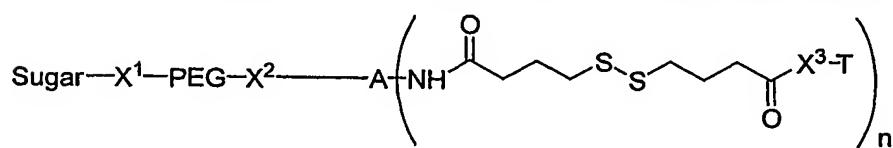
11 n is an integer from 1 to 1,000;

12 a is an integer from 1 to 10;

13 b is an integer from 1 to 10; and

14 q is an integer from 0 to 20.

1 24. The compound according to claim 14, having the formula:



3 wherein

4 X¹, X² and X³ are linking groups and are members selected from the group

5 consisting of O, S, NH(CH₂)_q-NH, NH-(CH₂)_q, NH-C(O)-O,

6 O-C(O)-NH, $(\text{CH}_2)_q$ -NH-C(O)-O, O-C(O)-NH-(CH_2)_q, C(O)-O,
7 O-C(O), $(\text{CH}_2)_q$ -NH-C(O), C(O)-NH-(CH_2)_q, NH-C(S), and C(S)-NH

8 wherein

9 q is an integer from 0 to 20.

1 25. The compound according to claim 24, having the formula:

